Available online at www.joac.info

ISSN: 2278-1862

Journal of Applicable Chemistry, 2012, 1 (4):536-540

(International Peer Reviewed Journal)

Study the Impact of Endosulfan Pesticide on behavioral responses in the Fresh Water Fish *Labeo Rohita*

P. Srinivasa Rao, N.Bujji Babu & R. Ramesh Raju *

Department of Chemistry, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur – 522510 A.P, India.
Email: rrraju1@gmail.com

Received on18th October and finalized on 30th October 2012

ABSTRACT

Static renewal test was conducted to determine the toxicity of technical grade (91.06% purity) insecticide endosulfan on the fresh water fish Labeo Rohita. Fishes were exposed to various concentrations of insecticide endosulfan for 96 hours and the percent mortality was recorded. Behavioral responses and morphological deformities were studies in the experimental periods. Fish in toxic media exhibited irregular erratic and darting swimming movements. The behavioral and morphological changes may be due to the formation of amino acids by degradation of proteins with concentration of pesticide.

Keywords: Endosulfan, *Labeo Rohita*, Behavioural changes, Amino acids and Insecticides.
